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(54) Heat-resistant molded article of lactic acid-base polymer

(57) A preparation process of heat-resistant molded articles of a lactic acid-base polymer comprising mixing the lactic acid-base polymer and poly- ϵ -caprolactone so as to obtain a L-lactic acid ratio of 75 % by weight or more, adding to the polymer mixture a crystalline inorganic powder containing 50 % by weight or more of SiO₂, melt-kneading the resultant composition, filling the same into a mold which is set at 85 - 125 °C and forming a shape while promoting crystallization, is disclosed and the molded articles have excellent heat resistance and impact strength, are suitably used for food trays and beverage cups, and can be degraded, in the case of wasted, into nontoxic water and carbon dioxide like natural products within a relatively short period in the natural environment.

EP 0 661 346 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 94 11 9891

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	EP-A-0 507 554 (MITSUI TOATSU CHEM.) * claim 1 * * page 3, line 52 * * page 4, line 1 * ---	1,4	C08L67/04 C08K3/36 C08K3/34 //(C08L67/04, 67:04), (C08L67/04, 67:00)
A	EP-A-0 401 844 (BOEHRINGER INGELHEIM KG) * claims 1,4,5,11,12 * * page 6, line 2 * ---	1	
A	DE-A-36 35 679 (DYNAMIT NOBEL AG) * claim 1 * ---	1,4	
A	DATABASE WPI Derwent Publications Ltd., London, GB; AN 94-037921(059 XP002010135 & JP-A-05 342 903 (MITSUI TOATSU CHEM INC) , 24 December 1993 * abstract * ---	1	
A,D	DATABASE WPI Derwent Publications Ltd., London, GB; AN 93-137113(17) XP002010136 & JP-A-05 070 696 (TOPPAN PRINTING CO LTD) , 23 March 1993 * abstract * -----	1,7	TECHNICAL FIELDS SEARCHED (Int.Cl.6) C08L C08K
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 5 August 1996	Examiner O'Sullivan, T
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

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